



VIENNA SYMPHONIC LIBRARY

# Vienna Instruments Concert Guitar

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# Introduction

Welcome, and thank you for purchasing the Vienna Symphonic Library's Concert Guitar. This document contains the mapping information for this Vienna Instruments Collection. You will find in it a comprehensive survey of the articulations/Patches for the Collection's Standard and Extended contents, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

We put a lot of effort into recording these concert guitar samples and processing them for you to get a natural sounding virtual instrument. Apart from single notes in various articulations, hammer-ons, trills, and bends, the Collection also contains our famous Interval and Repetition Performances for reproducing authentic legatos and tone repetitions, as well as several frequently used effect techniques and three- and four-key chords for every major and minor scale from C to B.

We wish you lots of fun and good success with the Vienna Concert Guitar!

The Vienna Symphonic Library Team

## Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary.

The velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements. The Patch information also lists the velocity layers in detail.

**A/B switching** normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo. The Concert Guitar also employs A/B switches for other uses, e.g., for switching between arpeggio and rasguando chords or different types of release.

## Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments Collections. They allow you to play authentic legato without any programming tricks. In our Silent Stage, all intervals from minor second to the octave were recorded for every instrument – up and down, of course; that makes 24 interval samples per note for one velocity alone! When you load an interval performance Patch and play a line on your keyboard, the software automatically joins the right samples with their interval transitions again, and you hear a perfect legato. By the way, this technique is also used for other articulations like the strings' portamento (which are also included in the Special Edition), marcato, or détaché and spiccato.

The interval performances also contain two legato repetitions for every note which alternate automatically whenever you strike a key more than once. There also are preconfigured thresholds for legato and repetition notes: The legato threshold – i.e., the maximum break between notes where legato is played – is 50 ms. Otherwise, a sustained starting note will sound so that you can easily start a new phrase without leaving the legato Patch. For note repetitions, the threshold is 200 ms: a break up to that duration will yield a legato repetition; if the break is longer, a new starting note. But naturally, it's mixing legato and repetitions with other articulations which makes a piece really come alive.

Due to their nature, all interval performances are monophonic; otherwise, the software would have to be able to decide which source note belongs to which target note. To circumvent this, you can open two VI instances of the same instrument on separate MIDI tracks without any additional strain on your RAM.

## Repetition performances

Unlike our fast repetitions, which only can be played at the speed they were recorded at and have a fixed number of 9 repeated notes, repetition performances allow you to cover a wide area of speeds from slow legato to very fast staccato. Like the legatos, the repetitions were recorded in one go and then cut up into discreet samples. The Vienna Instrument joins them again when you play, so that you have an unlimited supply of repetitions. Dynamics repetitions, however, are still limited in number (legatos and some portatos 5, other portatos and staccatos 9) since you cannot get louder or softer endlessly ...

## Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

**Keyswitches** reserve special keys on the keyboard for switching between different articulations, and are normally used for horizontal Matrix switching. If you want to create matrices of your own, please remember that the keyswitching area should not overlap with the articulations' play range; if it does, you won't be able to play those notes. Also, we recommend using a dedicated keyswitch range for all your Matrices.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

**Speed controller switches** naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller's settings at the **Control edit** page, and save the result in your Custom Matrix folder.

## Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes 101–112 instead of keyboard notes.

## Articulations

	Level 1 (Standard) content	Level 2 (Extended) content
<b>151 Concert Guitar</b>		
01 SHORT + LONG NOTES	Staccato normal and Bartók Sustained and ponticello without and with vibrato Harmonics artificial and natural	Staccato étouffé Flautando with and without vibrato Bartók (snapped) with and without vibrato Étouffé Tambora
02 HAMMER		Hammer-ons D, E, A, d, g, b, e strings All strings combination
03 TRILLS & CO	Trills, half and whole tone	Tremolo, short Bends, half tone, up and down
04 FX	Scratches combination	Golpe Harp effects Scratches on E, A, D Muted chords
10 PERF INTERVAL	Legato normal Legato sul ponticello Glissando Hammer-ons and pull-offs	
11 PERF REPETITION	Legato slow Legato fast, var. 1 Staccato	Legato medium Legato fast, var. 2 Ponticello medium and fast Crescendo and diminuendo

Level 1 (Standard) content	Level 2 (Extended) content
12 FAST REPETITION	Fast repetitions Normal Ponticello Crescendo and diminuendo
13 CHORDS on 4-6 Strings/ 01 Major 3 keys	3-key chords, C to B major Battente Pulled Rasguando short Arpeggio/rasguando long
13 CHORDS on 4-6 Strings/ 02 Major 4 keys	4-key chords, C to B major Battente Pulled Rasguando short Arpeggio/rasguando long
13 CHORDS on 4-6 Strings/ 03 Minor 3 keys	3-key chords, C to B minor Battente Pulled Rasguando short Arpeggio/rasguando long
13 CHORDS on 4-6 Strings/ 04 Minor 4 keys	4-key chords, C to B minor Battente Pulled Rasguando short Arpeggio/rasguando long
13 CHORDS on 4-6 Strings/ 05 Chromatic Mapping	Chords in chromatic progression Battente, pulled, rasguando short, and arpeggio/long rasguando Major, minor, dominant 7, major 7, and minor 7 chords on 6, 5, and 4 strings Diminished 7, major 7 with augmented 5th, minor 7 with diminished 5th, and minor with major 7th chords Sus4 and 7sus4, with the E, A, and D strings as base
14 CHORDS on 3 Strings	Chords played on 3 strings in chromatic progression Battente, pulled, and rasguando short Major base, 1st inversion, 2nd inversion, with 8ve Minor base, 1st inversion, 2nd inversion Minor 7, dominant 7, diminished 7, sus4

## Abbreviations

<b>Abbreviation</b>	<b>Meaning</b>	<b>Abbreviation</b>	<b>Meaning</b>
150, 160, ...	150, 160, ... BPM (beats per minute)	me	medium
all	combination of all Patches of a kind	min	minor
arp	arpeggio	nat	natural (harmonics)
art	artificial (harmonics)	noVib	without vibrato
batt	battente (strummed)	perf-rep	repetition performance
cre	crescendo	pont	sul ponticello
cre5, cre9	crescendo, 5/9 repetitions	por	portato
dim	diminuendo, diminished	pull	pulled (plucked)
dim5, dim9	diminuendo, 5/9 repetitions	rasg	rasguando or rasgueado
dyn	dynamics (crescendo and diminuendo)	RS	release sample
dyn5, dyn9	dynamics, 5/9 repetitions	sA	soft attack
fa	fast	sl	slow
fast-rep	fast repetitions	sta, stac	staccato
leg	legato	str	strong
lo	long	sus	sustained
maj	major	Vib	with (normal) vibrato
		XF	cell crossfade Matrix

## Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

# 151 Concert-Guitar

## Patches

### 01 SHORT + LONG NOTES

**Range:** D2–C6

**Level 1:** Staccato normal and Bartók

Sustained and ponticello without and with vibrato

Harmonics artificial and natural

**Level 2:** Staccato étouffé

Flautando with and without vibrato

Bartók (snapped) with and without vibrato

Étouffé

Tambora

#### 01 CG\_staccato

**Samples:** 192   **RAM:** 12 MB   **Level 1**

Staccato

4 velocity layers: 0–55 p; 56–88 mf; 89–118 f; 119–127 ponticello (ff)

2 Alternations

#### 02 CG\_staccato\_bartok

**Samples:** 93   **RAM:** 5 MB   **Level 1**

Bartók staccato (snapped)

2 velocity layers: 0–88 p; 89–127 f

#### 03 CG\_staccato\_etaouffe

**Range:** D2–E5   **Samples:** 144   **RAM:** 9 MB   **Level 2**

Staccato, étouffé (choked)

2 velocity layers: 0–88 p; 89–127 f

2 Alternations

#### 11 CG\_sustain\_Vib

**Samples:** 315   **RAM:** 19 MB   **Level 1**

Sustained, with vibrato

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

Release samples

2 Alternations

AB switch: release mute finger/hand

#### 12 CG\_sustain\_noVib

**Samples:** 174   **RAM:** 10 MB   **Level 1**

Sustained, without vibrato

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

Release samples

AB switch: release mute finger/hand

#### 13 CG\_flautando\_Vib

**Samples:** 127   **RAM:** 7 MB   **Level 2**

Flautando, with vibrato

1 velocity layer

Release samples

2 Alternations

AB switch: release mute finger/hand

**14 CG\_flautando\_noVib**

Samples: 80 RAM: 5 MB Level 2

Flautando, without vibrato

1 velocity layer

Release samples

AB switch: release mute finger/hand

**15 CG\_ponticello\_Vib**

Samples: 127 RAM: 7 MB Level 1

Sul ponticello (played near the bridge), with vibrato

1 velocity layer

Release samples

2 Alternations

AB switch: release mute finger/hand

**16 CG\_ponticello\_noVib**

Samples: 80 RAM: 5 MB Level 1

Ponticello, without vibrato

1 velocity layer

Release samples

AB switch: release mute finger/hand

**17 CG\_bartok\_Vib**

Samples: 221 RAM: 13 MB Level 2

Bartók (snapped), with vibrato

2 velocity layers: 0–88 p; 89–127 f

Release samples

2 Alternations

AB switch: release mute finger/hand

**18 CG\_bartok\_noVib**

Samples: 80 RAM: 5 MB Level 2

Bartók (snapped) without vibrato

1 velocity layer

Release samples

AB switch: release mute finger/hand

**19 CG\_etafffe**

Samples: 221 RAM: 13 MB Level 2

Étouffé ("choked")

2 velocity layers: 0–88 p; 89–127 f

Release samples

2 Alternations

AB switch: release mute finger/hand

**20 CG\_tambora**

Samples: 94 RAM: 5 MB Level 2

Tambora

The string and fingerboard are struck with the thumb, giving a subdued sound

1 velocity layer

2 Alternations

**21 CG\_harmonics-art**

Range: D3–C7 Samples: 80 RAM: 5 MB Level 1

Harmonics, artificial

1 velocity layer

Release samples

AB switch: release mute finger/hand

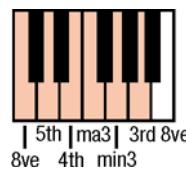
**22 CG\_harmonics-nat**

Range: C1–A7 Samples: 75 RAM: 4 MB Level 1

Harmonics, natural  
 Mapped to white keys only  
 1 velocity layer  
 Release samples

**Mapping:**

C: 1st, D: 2nd, E: 3rd, F: 4th, G: 5th, A: 6th harmonic  
 C1–A1: D string  
 C2–A2: E string  
 C3–A3: A string  
 C4–A4: d string  
 C5–A5: g string  
 C6–A6: b string  
 C7–A7: e string

**02 HAMMER****Level 2:** Hammer-ons

D, E, A, d, g, b, e strings  
 All strings combination

Hammer-ons: an effect where the string is partitioned by the left-hand fingers so that both parts of the string sound.

**01 CG\_hammer\_D-string**

Range: F2–G#3 Samples: 63 RAM: 3 MB Level 2

Hammer-ons on the D string, mezzoforte  
 2 velocity layers: 0–108 long; 109–127 short  
 Release samples  
 AB switch: release mute finger/hand

**02 CG\_hammer\_E-string**

Range: G#2–A#3 Samples: 63 RAM: 3 MB Level 2

Hammer-ons on the E string, mezzoforte  
 2 velocity layers: 0–108 long; 109–127 short  
 Release samples  
 AB switch: release mute finger/hand

**03 CG\_hammer\_A-string**

Range: C#3–D#4 Samples: 63 RAM: 3 MB Level 2

Hammer-ons on the A string, mezzoforte  
 2 velocity layers: 0–108 long; 109–127 short  
 Release samples  
 AB switch: release mute finger/hand

**04 CG\_hammer\_d-string**

Range: F#3–G#4 Samples: 63 RAM: 3 MB Level 2

Hammer-ons on the d string, mezzoforte  
 2 velocity layers: 0–108 long; 109–127 short  
 Release samples  
 AB switch: release mute finger/hand

<b>05 CG_hammer_g-string</b>	<b>Range: B3–C#5</b>	<b>Samples: 63</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
Hammer-ons on the g string, mezzoforte 2 velocity layers: 0–108 long; 109–127 short Release samples AB switch: release mute finger/hand				
<b>06 CG_hammer_b-string</b>	<b>Range: D#4–F5</b>	<b>Samples: 63</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
Hammer-ons on the b string, mezzoforte 2 velocity layers: 0–108 long; 109–127 short Release samples AB switch: release mute finger/hand				
<b>07 CG_hammer_e-string</b>	<b>Range: G#4–A#5</b>	<b>Samples: 63</b>	<b>RAM: 3 MB</b>	<b>Level 2</b>
Hammer-ons on the e string, mezzoforte 2 velocity layers: 0–108 long; 109–127 short Release samples AB switch: release mute finger/hand				
<b>08 CG_hammer_all-strings</b>	<b>Range: F2–A#5</b>	<b>Samples: 115</b>	<b>RAM: 7 MB</b>	<b>Level 2</b>
Hammer-ons on all strings, mezzoforte 2 velocity layers: 0–108 long; 109–127 short Release samples AB switch: release mute finger/hand				

### 03 TRILLS & CO

**Level 1:** Trills, half and whole tone  
**Level 2:** Tremolo, short  
     Bends, half tone, up and down

<b>01 CG_trem_short</b>	<b>Range: D2–C6</b>	<b>Samples: 212</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
Tremolo, short 2 velocity layers: 0–88 p; 89–127 mf Release samples AB switch: release normal/muted				
<b>02 CG_trill_1</b>	<b>Range: D2–F5</b>	<b>Samples: 78</b>	<b>RAM: 4 MB</b>	<b>Level 1</b>
Half tone trills 1 velocity layer: 0–127 mp Release samples				
<b>03 CG_trill_2</b>	<b>Range: D2–F5</b>	<b>Samples: 78</b>	<b>RAM: 4 MB</b>	<b>Level 1</b>
Whole tone trills 1 velocity layer: 0–127 mf Release samples				
<b>04 CG_bend</b>	<b>Range: D2–C#6</b>	<b>Samples: 208</b>	<b>RAM: 13 MB</b>	<b>Level 2</b>
Half tone bends Please note that the upward bends begin at D#2 and the downward bends end at B5 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down				

**04 FX****Level 1:** Scratches combination**Level 2:** Golpe

Harp effects

Scratches on E, A, D

Muted chords

**01 CG\_FX\_harp****Range: E2–F6****Samples: 20****RAM: 1 MB****Level 2**

Harp-like effects created by plucking the strings between the nut and the tuners

Single notes on every string (2 variations), and upward and downward chords

1 velocity layer

**Mapping:**

Single notes:

E2–F2: low E string, var. 1/2

A2–B2: A string, var. 1/2

D3–E3: D string, var. 1/2

G3–A3: G string, var. 1/2

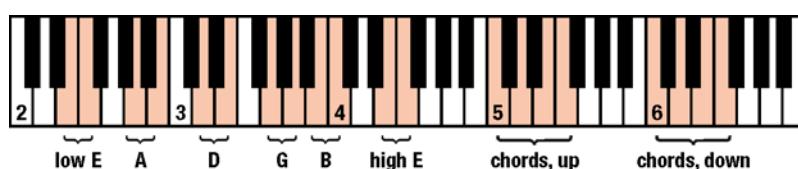
B3–C4: B string, var. 1/2

E4–F4: high E string, var. 1/2

Chords:

C5–F5: upward

C6–F6: downward

**02 CG\_FX\_golpe****Range: C2–D6****Samples: 44****RAM: 2 MB****Level 2**

Golpe: strokes on the top, side, neck, fingerboard, flams and fingernail strokes on the bridge of the guitar, and drum rolls

2 velocity layers: 0–88 p; 89–127 f

**Mapping:**

C2–C3: top strokes in 4 different places, var. 1/2

E3–A3: side strokes in 2 places, var. 1/2

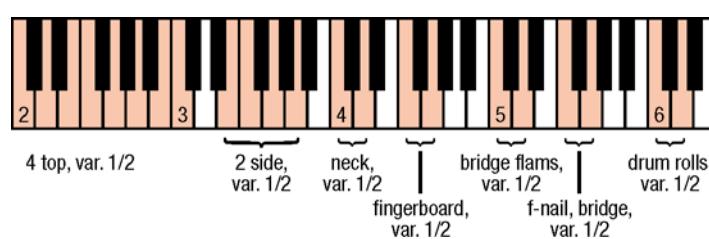
C4–D4: neck stroke, var. 1/2

F4–G4: fingerboard stroke, var. 1/2

C5–D5: bridge flams, var. 1/2

F5–G5: fingernail bridge strokes, var. 1/2

C6–D6: drum rolls, var. 1/2



**03 CG\_FX\_chord-mute**

Range: C7–G7

Samples: 20

RAM: 1 MB

Level 2

Muted chords

Battente, pulled, short and long rasguando, arpeggio

2 velocity layers: 0–88 p; 89–127 f

**Mapping:**

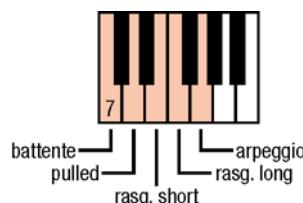
C7: battente

D7: pulled

E7: rasguando, short

F7: rasguando, long

G7: arpeggio

**11 CG\_FX\_scratch E-string**

Range: C2–A#5

Samples: 32

RAM: 2 MB

Level 2

Scratching on the E string

Slow, long, medium, and short

1 velocity layer

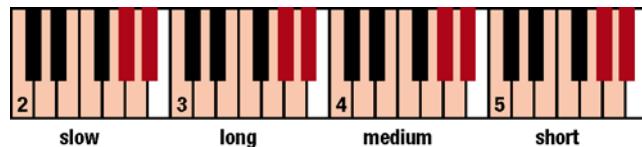
**Mapping:**

C2–A#2: slow

C3–A#3: long

C4–A#4: medium

C5–A#5: short

**12 CG\_FX\_scratch A-string**

Range: C2–A#5

Samples: 20

RAM: 1 MB

Level 2

Scratching on the A string

Slow, long, medium, and short

1 velocity layer

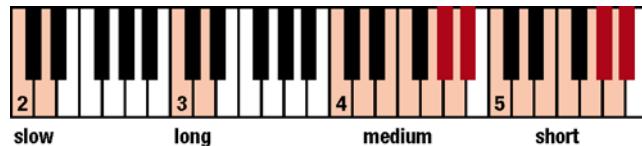
**Mapping:**

C2–D2: slow

C3–D3: long

C4–A#4: medium

C5–A#5: short



**13 CG\_FX\_scratch D-string**

Range: C3–A#5 Samples: 13 RAM: 1 MB

Level 2

Scratching on the D string

Long, medium, and short

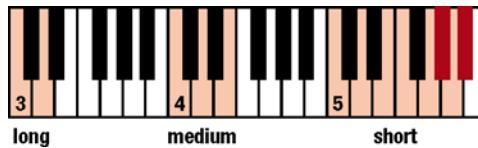
1 velocity layer

**Mapping:**

C3–D3: long

C4–E4: medium

C5–A#5: short

**14 CG\_FX\_scratch combi**

Range: C6–C8 Samples: 24 RAM: 1 MB

Level 1

Scratching on the E, A, and D strings

Long, medium, and short

1 velocity layer

**Mapping:**

C6–C#6: E, long, var. 1/2

D6–D#6: E, medium, var. 1/2

E6–G6: E, short, var. 1–4

A6–A#6: A, long, var. 1/2

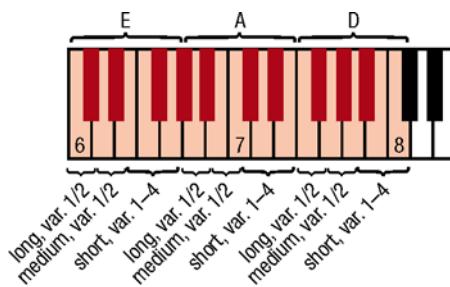
B6–C7: A, medium, var. 1/2

C#7–E7: A, short, var. 1–4

F7–F#7: D, long, var. 1/2

G7–G#7: D, medium, var. 1/2

A7–C8: D, short, var. 1–4



**10 PERF INTERVAL****Range: D2–C6**

**Level 1:** Legato normal  
 Legato sul ponticello  
 Glissando  
 Hammer-ons and pull-offs

**01 CG\_perf-legato****Samples: 1869 RAM: 116 MB Level 1**

Legato  
 Monophonic  
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f  
 Release samples  
 AB switch: release mute finger/hand

**02 CG\_perf-legato\_ponticello****Samples: 619 RAM: 38 MB Level 1**

Legato, sul ponticello  
 Monophonic  
 1 velocity layer  
 Release samples  
 AB switch: release mute finger/hand

**03 CG\_perf-legato\_glissando****Samples: 885 RAM: 55 MB Level 1**

Glissando  
 Monophonic  
 1 velocity layer: 0–127 mf  
 Release samples  
 AB switch: release mute finger/hand

**04 CG\_perf-legato\_hammer-pull****Samples: 1377 RAM: 86 MB Level 1**

Hammer-ons and pull-offs  
 Monophonic  
 2 velocity layers: 0–108 p; 109–127 f  
 Release samples  
 AB switch: release mute finger/hand

**11 PERF REPETITION****Range: D2–C6****Level 1:** Legato slow

Legato fast, var. 1

Staccato

**Level 2:** Legato medium

Legato fast, var. 2

Ponticello medium and fast

Crescendo and diminuendo

**01 CG\_perf-rep\_leg-sl****Samples: 393****RAM: 24 MB****Level 1**

Legato, slow

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

Release samples

AB switch: release mute finger/hand

**02 CG\_perf-rep\_leg-me****Samples: 681****RAM: 42 MB****Level 2**

Legato, medium

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

Release samples

AB switch: release mute finger/hand

**03 CG\_perf-rep\_leg-fa1****Samples: 681****RAM: 42 MB****Level 1**

Legato, fast, var. 1

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

Release samples

AB switch: release mute finger/hand

**04 CG\_perf-rep\_leg-fa2****Samples: 681****RAM: 42 MB****Level 2**

Legato, fast, var. 2

3 velocity layers: 0–55 pp; 56–108 mf; 109–127 f

Release samples

AB switch: release mute finger/hand

**05 CG\_perf-rep\_stac****Samples: 360****RAM: 22 MB****Level 1**

Staccato

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

**06 CG\_perf-rep\_ponticello-me****Samples: 249****RAM: 15 MB****Level 2**

Ponticello, medium

1 velocity layer

Release samples

AB switch: release mute finger/hand

**07 CG\_perf-rep\_ponticello-fa****Samples: 249****RAM: 15 MB****Level 2**

Ponticello, fast

1 velocity layer

Release samples

AB switch: release mute finger/hand

**11 CG\_perf-rep\_dyn9**

Samples: 432 RAM: 27 MB Level 2

Crescendo and diminuendo, legato, 9 repetitions  
 1 velocity layer  
 AB switch: crescendo/diminuendo

**12 FAST REPETITION**

Range: D2–C6

**Level 2:** Fast repetitions

Normal  
 Ponticello  
 Crescendo and diminuendo

**01 CG\_fast-rep\_140 (150/160/180/200)**

Samples: 168 RAM: 10 MB Level 2

Staccato, 9 repetitions, 140–160, 180, and 200 BPM  
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f  
 Release samples  
 AB switch: release normal/muted

**11 CG\_fast-rep\_140\_pont (150/160/180/200)**

Samples: 72 RAM: 4 MB Level 2

Sul ponticello, 9 repetitions, 140–160, 180, and 200 BPM  
 1 velocity layer  
 Release samples  
 AB switch: release normal/muted

**21 CG\_fast-rep\_140\_dyn (150/160/180/200)**

Samples: 72 RAM: 4 MB Level 2

Crescendo and diminuendo, 9 repetitions, 140–160, 180, and 200 BPM

## 13 CHORDS on 4-6 Strings

### 13 CHORDS on 4-6 Strings/01 Major 3 keys

**Level 2:** 3-key chords, C to B major

Battente

Pulled

Rasguando short

Arpeggio/rasguando long

3-key chords on every note of the scale, C major to B major

Depending on tablature, the chords are played on 4 to 6 strings.

For individual play ranges, please see the appendix.

#### Mapping:

- 1.) E2–D#4 features the lower playing positions on the guitar with 3–4 6-string chords and 1–3 5-string chords followed by 4-string chords up to the highest chord.
- 2.) E4–G5/G#5 (depending on the scale) features higher playing positions, with 6-string chords up to C3, if possible. The lowest of these are the same in playing position 1. They are followed by 5-string chords up to G3. The following 4-string chords are the same as at the 1st playing position.

Here's an illustration of the chords as they are played for C major, with the keys they are mapped to.

**13 CHORDS on 4-6 Strings/01 Major 3 keys/01 Regular - batt****01 CG\_C-maj-3\_batt (through to B-maj)**

Samples: 89

RAM: 5 MB

Level 2

3-key chords, battente (strummed), C major to B major scales

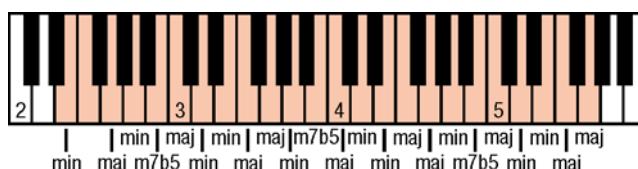
2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

**Mapping:**

base key – major; 2nd – minor; 3rd – minor; 4th – major; 5th – major; 6th – minor; 7th – diminished with min. 7th

**13 CHORDS on 4-6 Strings/01 Major 3 keys/02 Regular - pull****01 CG\_C-maj-3\_pull (through to B-maj)**

Samples: 89

RAM: 5 MB

Level 2

3-key chords, pulled (plucked), C major to B major scales

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

**13 CHORDS on 4-6 Strings/01 Major 3 keys/03 Rasguando****01 CG\_C-maj-3\_rasg (through to B-maj)**

Samples: 89

RAM: 5 MB

Level 2

3-key chords, short rasguando (rapid strumming with single fingers), C major to B major scales

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

**13 CHORDS on 4-6 Strings/01 Major 3 keys/04 Arpeggio****01 CG\_C-maj-3\_arp (through to B-maj)**

Samples: 129

RAM: 8 MB

Level 2

3-key chords, arpeggio and long rasguando, C major to B major scales

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: arpeggio/rasguando

## 13 CHORDS on 4-6 Strings/02 Major 4 keys

**Level 2:** 4-key chords, C to B major

Battente

Pulled

Rasguando short

Arpeggio/rasguando long

4-key chords on every note of the scale, C major to B major

Depending on tablature, the chords are played on 4 to 6 strings.

For individual play ranges, please see the appendix.

### Mapping:

1.) E2–D#4 features the lower playing positions on the guitar with 3–4 6-string chords and 1–3 5-string chords followed by 4-string chords up to the highest chord.

2.) E4–G5/G#5 (depending on the scale) features higher playing positions, with 6-string chords up to C3, if possible. The lowest of these are the same in playing position 1. They are followed by 5-string chords up to G3. The following 4-string chords are the same as at the 1st playing position.

Here's an illustration of the chords as they are played for C major, with the keys they are mapped to.

The diagram illustrates the mapping of 13 chords for C major across four octaves (E2 to G5) on a 6-string guitar. The chords are arranged in four rows:

- Row 1 (Octave 1):** E2, F2, G2, A2, B2, C3, D3
- Row 2 (Octave 2):** E3, F3, G3, A3, B3, C4, D4
- Row 3 (Octave 3):** E4, F4, G4, A4, B4, C5, D5
- Row 4 (Octave 4):** E5, F5, G5

Each staff shows a vertical stack of dots representing a specific chord voicing or string set. The first staff (E2) shows a 6-string chord, while subsequent staves show progressively fewer strings (5, 4, 4, 3 respectively) as the scale ascends. The staves are labeled with their corresponding octave and letter name.

**13 CHORDS on 4-6 Strings/02 Major 4 keys/01 Regular - batt****01 CG\_C-maj-4\_batt (through to B-maj)**

Samples: 85

RAM: 5 MB

Level 2

4-key chords, battente (strummed), C major to B major scales

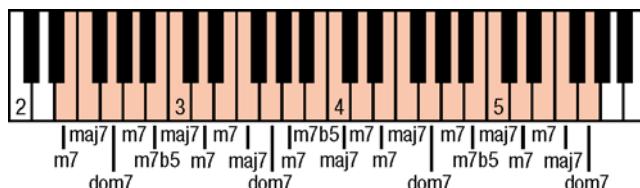
2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

**Mapping:**

base key – major 7; 2nd – minor 7; 3rd – minor 7; 4th – major 7; 5th – dominant 7; 6th – minor 7; 7th – diminishedwith min. 7

**13 CHORDS on 4-6 Strings/02 Major 4 keys/02 Regular - pull****01 CG\_C-maj-4\_pull (through to B-maj)**

Samples: 85

RAM: 5 MB

Level 2

4-key chords, pulled (plucked), C major to B major scales

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

**13 CHORDS on 4-6 Strings/02 Major 4 keys/03 Rasguando****01 CG\_C-maj-4\_rasg (through to B-maj)**

Samples: 85

RAM: 5 MB

Level 2

4-key chords, short rasguando (rapid strumming with single fingers), C major to B major scales

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

**13 CHORDS on 4-6 Strings/02 Major 4 keys/04 Arpeggio****01 CG\_C-maj-4\_arp (through to B-maj)**

Samples: 123

RAM: 7 MB

Level 2

4-key chords, arpeggio and long rasguando, C major to B major scales

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: arpeggio/rasguando

## 13 CHORDS on 4-6 Strings/03 Minor 3 keys

**Level 2:** 3-key chords, C to B minor

Battente

Pulled

Rasguando short

Arpeggio/rasguando long

3-key chords on every note of the scale, C to B minor

Depending on tablature, the chords are played on 4 to 6 strings.

For individual play ranges, please see the appendix.

### Mapping:

1st playing position, E2–D#4: aeolian mode (natural minor).

2nd playing position, E4–D6/D#6: harmonic minor.

Here's an illustration of the chords as they are played for C minor, with the keys they are mapped to.

**13 CHORDS on 4-6 Strings/03 Minor 3 keys/01 Regular - batt****01 CG\_C-min-3\_batt (through to B-min)**

Samples: 93

RAM: 5 MB

Level 2

3-key chords, battente (strummed), C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

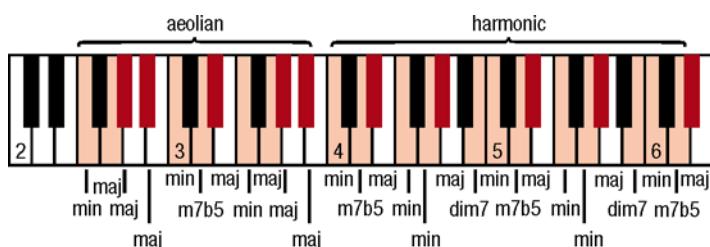
**Mapping:**

F2–A#3 (aeolian):

base key – minor; 2nd – diminished with min. 7; 3rd – major; 4th – minor; 5th – major; 6th – major; 7th – major

C4–D#6 (harmonic):

base key – minor; 2nd – diminished with min. 7th; 3rd – major; 4th – minor; 5th – minor; 6th – major; 7th – dim. 7

**13 CHORDS on 4-6 Strings/03 Minor 3 keys/02 Regular - pull****01 CG\_C-min-3\_pull (through to B-min-3)**

Samples: 93

RAM: 5 MB

Level 2

3-key chords, pulled (plucked), C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

**13 CHORDS on 4-6 Strings/03 Minor 3 keys/03 Rasguando****01 CG\_C-min-3\_rasg (through to B-min-3)**

Samples: 93

RAM: 5 MB

Level 2

3-key chords, short rasguando (rapid strumming with single fingers), C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

**13 CHORDS on 4-6 Strings/03 Minor 3 keys/04 Arpeggio****01 CG\_C-min-3\_arp (through to B-min-3)**

Samples: 135

RAM: 8 MB

Level 2

3-key chords, arpeggio and long rasguando, C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: arpeggio/rasguando

## 13 CHORDS on 4-6 Strings/04 Minor 4 keys

**Level 2:** 4-key chords, C to B minor

Battente

Pulled

Rasguando short

Arpeggio/rasguando long

4-key chords on every note of the scale, C to B minor

Depending on tablature, the chords are played on 4 to 6 strings.

For individual play ranges, please see the appendix.

### Mapping:

1st playing position, E2–D#4: aeolian mode (natural minor).

2nd playing position, E4–D6/D#6: harmonic minor.

Here's an illustration of the chords as they are played for C minor, with the keys they are mapped to.

The diagram shows a musical staff with four octaves. The labels below the staff identify the chords and their corresponding keys:

- F2: G2, Ab2, Bb2, C3, D3, Eb3
- F3: G3, Ab3, Bb3, C4, D4, Eb4
- F4: G4, Ab4, B4, C5, D5, Eb5
- F5: G5, Ab5, B5, C6, D6, Eb6

**13 CHORDS on 4-6 Strings/04 Minor 4 keys/01 Regular - batt****01 CG\_C-min\_batt (through to B-min)**

Samples: 97

RAM: 6 MB

Level 2

4-key chords, battente (strummed), C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

**Mapping:**

F2–A#3 (aeolian):

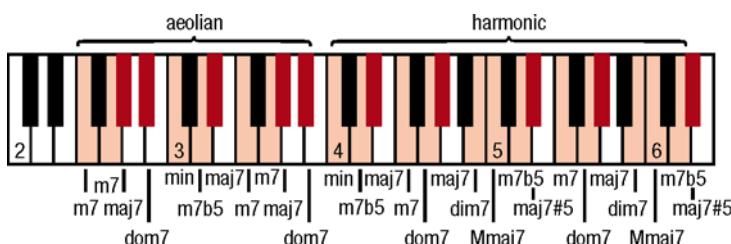
base key – minor 7; 2nd – diminished with min. 7; 3rd – major 7; 4th – minor 7; 5th – minor 7; 6th – major 7; 7th – dom. 7

C4–B4 (harmonic):

base key – minor 7; 2nd – diminished with min. 7; 3rd – major 7; 4th – minor 7; 5th – dom. 7; 6th – major 7; 7th – dim. 7

C5–D#6 (harmonic):

base key – minor with maj. 7; 2nd – diminished with min. 7; 3rd – maj. 7 with augmented 5; 4th – minor 7; 5th – dom. 7; 6th – major 7; 7th – dim. 7

**13 CHORDS on 4-6 Strings/04 Minor 4 keys/02 Regular - pull****01 CG\_C-min\_pull (through to B-min)**

Samples: 97

RAM: 6 MB

Level 2

4-key chords, pulled (plucked), C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

**13 CHORDS on 4-6 Strings/04 Minor 4 keys/03 Rasguando****01 CG\_C-min\_rasg (through to B-min)**

Samples: 97

RAM: 6 MB

Level 2

4-key chords, short rasguando (rapid strumming with single fingers), C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

**13 CHORDS on 4-6 Strings/04 Minor 4 keys/04 Arpeggio****01 CG\_C-min\_arp (through to B-min)**

Samples: 141

RAM: 8 MB

Level 2

4-key chords, arpeggio and long rasguando, C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: arpeggio/rasguando

## 13 CHORDS on 4-6 Strings/05 Chromatic Mapping

**Level 2:** Chords in chromatic progression

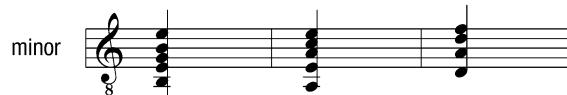
Battente, pulled, rasguando short, and arpeggio/long rasguando

Major, minor, dominant 7, major 7, and minor 7 chords on 6, 5, and 4 strings

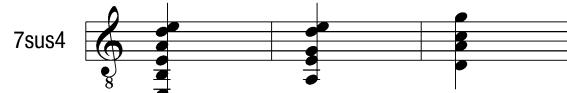
Diminished 7, major 7 with augmented 5th, minor 7 with diminished 5th, and minor with major 7th chords

Sus4 and 7sus4, with the E, A, and D strings as base

Here's an illustration of the chords, based on the lowest playing position on the guitar:



D#2-D#3      A3-G#4      C#5-D6



D#2-D#3      G#3-G#4      C#5-D#6

**13 CHORDS on 4-6 Strings/05 Chromatic Mapping/01 Regular - batt****01 CG\_chord\_major\_batt (minor/dom7/maj7/min7)**

Range: D#2-D6 Samples: 85 RAM: 5 MB Level 2

Major, minor, dominant 7, major 7, and minor 7 chords, battente (strummed)

2 velocity layers: 0-88 p; 89-127 f

Release samples

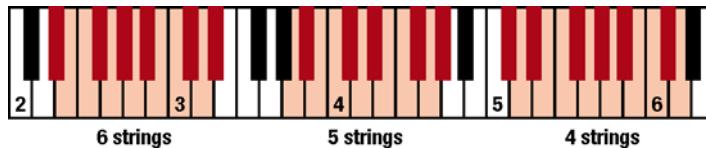
AB switch: normal/muted

**Mapping:**

D#2-D#3: E (6 strings)

A3-G#4: A (5 strings)

C#5-D6: D (4 strings)

**06 CG\_chord\_dim7\_batt (maj7#5/m7b5/Mmaj7) Range: A2-D#4 Samples: 45 RAM: 2 MB Level 2**

Diminished 7, major 7 with augmented 5th, minor 7 with diminished 5th, and minor with major 7th chords, battente

2 velocity layers: 0-88 p; 89-127 f

Release samples

AB switch: normal/muted

**10 CG\_chord\_sus4\_batt (7sus4)**

Range: D#2-D#6 Samples: 85 RAM: 5 MB Level 2

Sus4 and 7sus4 chords, battente

2 velocity layers: 0-88 p; 89-127 f

Release samples

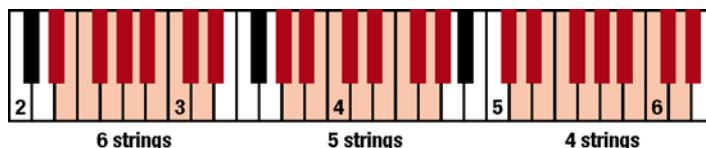
AB switch: normal/muted

**Mapping:**

D#2-D#3: E (6 strings)

G#3-G#4: A (5 strings)

C#5-D#6: D (4 strings)



**13 CHORDS on 4-6 Strings/05 Chromatic Mapping/02 Regular - pull****01 CG\_chord\_major\_pull (minor/dom7/maj7/min7)**

Range: D#2-D6 Samples: 85 RAM: 5 MB Level 2

Major, minor, dominant 7, major 7, and minor 7 chords, pulled (plucked)

2 velocity layers: 0-88 p; 89-127 f

Release samples

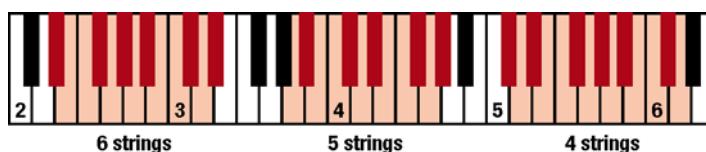
AB switch: normal/muted

**Mapping:**

D#2-D#3: E (6 strings)

A3-G#4: A (5 strings)

C#5-D6: D (4 strings)

**06 CG\_chord\_dim7\_pull (maj7#5/m7b5/Mmaj7) Range: A2-D#4 Samples: 45 RAM: 2 MB Level 2**

Diminished 7, major 7 with augmented 5th, minor 7 with diminished 5th, and minor with major 7th chords, pulled

2 velocity layers: 0-88 p; 89-127 f

Release samples

AB switch: normal/muted

**10 CG\_chord\_sus4\_pull (7sus4)**

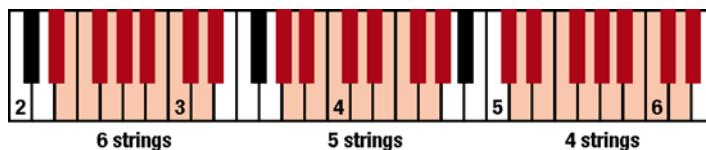
Range: D#2-D#6 Samples: 85 RAM: 5 MB Level 2

Sus4 and 7sus4 chords, pulled

2 velocity layers: 0-88 p; 89-127 f

Release samples

AB switch: normal/muted

**13 CHORDS on 4-6 Strings/05 Chromatic Mapping/03 Rasguando****01 CG\_chord\_major\_rasg (minor/dom7/maj7/min7)**

Range: D#2-D6 Samples: 85 RAM: 5 MB Level 2

Major, minor, dominant 7, major 7, and minor 7 chords, short rasguando

2 velocity layers: 0-88 p; 89-127 f

Release samples

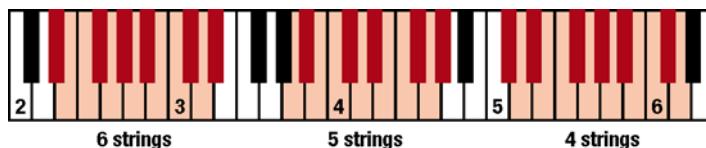
AB switch: normal/muted

**Mapping:**

D#2-D#3: E (6 strings)

A3-G#4: A (5 strings)

C#5-D6: D (4 strings)



**06 CG\_chord\_dim7\_rasg (maj7#5/m7b5/Mmaj7) Range: A2-D#4 Samples: 45 RAM: 2 MB Level 2**

Diminished 7, major 7 with augmented 5th, minor 7 with diminished 5th, and minor with major 7th chords, short rasguando  
2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

**10 CG\_chord\_sus4\_rasg (7sus4)**

**Range: D#2–D#6 Samples: 85**

**RAM: 5 MB**

**Level 2**

Sus4 and 7sus4 chords, short rasguando

2 velocity layers: 0–88 p; 89–127 f

Release samples

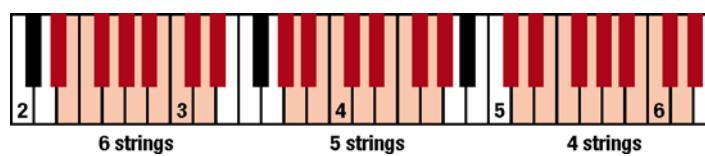
AB switch: normal/muted

**Mapping:**

D#2–D#3: E (6 strings)

G#3–G#4: A (5 strings)

C#5–D#6: D (4 strings)

**13 CHORDS on 4-6 Strings/05 Chromatic Mapping/04 Arpeggio****01 CG\_chord\_major\_arp (minor/dom7/maj7/min7)**

**Range: D#2–D6 Samples: 123**

**RAM: 7 MB**

**Level 2**

Major, minor, dominant 7, major 7, and minor 7 chords, arpeggio/long rasguando

2 velocity layers: 0–88 p; 89–127 f

Release samples

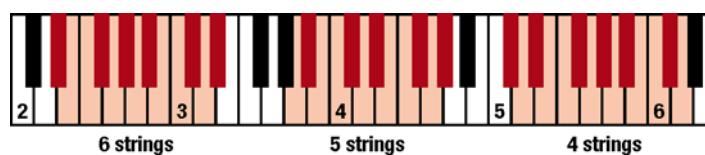
AB switch: arpeggio/rasguando

**Mapping:**

D#2–D#3: E (6 strings)

A3–G#4: A (5 strings)

C#5–D#6: D (4 strings)

**06 CG\_chord\_dim7\_arp (maj7#5/m7b5/Mmaj7) Range: A2–D#4 Samples: 63 RAM: 3 MB Level 2**

Diminished 7, major 7 with augmented 5th, minor 7 with diminished 5th, and minor with major 7th chords, arpeggio/long rasguando

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: arpeggio/rasguando

**10 CG\_chord\_sus4\_arp (7sus4)**

Range: D#2-D#6 Samples: 123 RAM: 7 MB Level 2

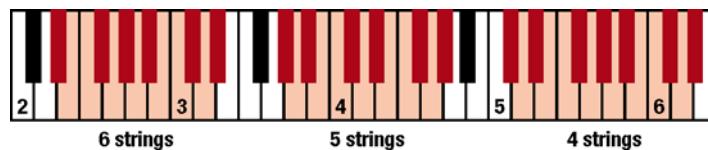
Sus4 and 7sus4 chords, arpeggio/long rasguando  
2 velocity layers: 0–88 p; 89–127 f  
Release samples  
AB switch: arpeggio/rasguando

**Mapping:**

D#2–D#3: E (6 strings)

G#3–G#4: A (5 strings)

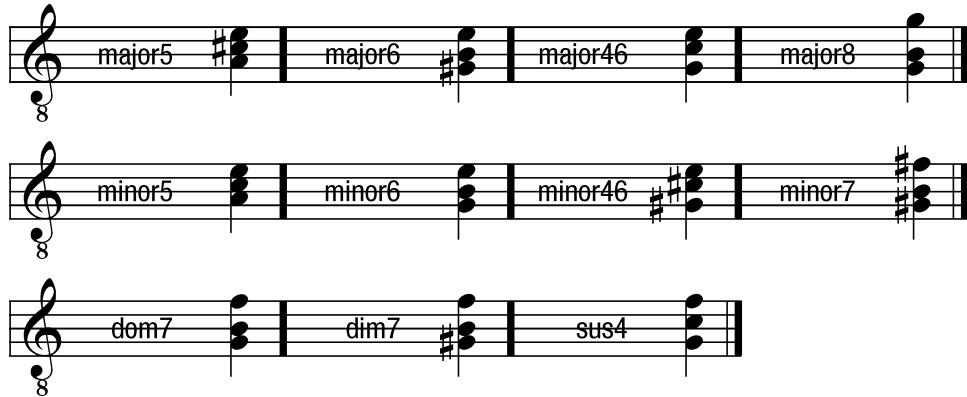
C#5–D#6: D (4 strings)



## 14 CHORDS on 3 Strings

**Level 2:** Chords played on 3 strings in chromatic progression  
 Battente, pulled, and rasguando short  
 Major base, 1st inversion, 2nd inversion, with 8ve  
 Minor base, 1st inversion, 2nd inversion  
 Minor 7, dominant 7, diminished 7, sus4

Here's an illustration of the chords, based on the lowest playing position on the guitar:



### 14 CHORDS on 3 Strings/01 Regular - batt

**01 CG\_chord3\_major5\_batt (major6/major46/major8/minor5/minor6/minor46/minor7/dom7/dim7/sus4)**  
 Samples: 37   RAM: 2 MB   **Level 2**

Major base, 1st inversion, 2nd inversion, octave  
 Minor base, 1st inversion, 2nd inversion, 7th  
 Dominant 7, diminished 7, sus4  
 Battente (strummed)  
 2 velocity layers: 0–88 p; 89–127 f  
 Release samples  
 AB switch: normal/muted

### 14 CHORDS on 3 Strings/02 Regular - pull

**01 CG\_chord3\_major5\_pull (major6/major46/major8/minor5/minor6/minor46/minor7/dom7/dim7/sus4)**  
 Samples: 37   RAM: 2 MB   **Level 2**

Major base, 1st inversion, 2nd inversion, octave  
 Minor base, 1st inversion, 2nd inversion, 7th  
 Dominant 7, diminished 7, sus4  
 Pulled (plucked)  
 2 velocity layers: 0–88 p; 89–127 f  
 Release samples  
 AB switch: normal/muted

**14 CHORDS on 3 Strings/03 Rasguando**

**01 CG\_chord3\_major5\_rasg (major6/major46/major8/minor5/minor6/minor46/minor7/dom7/dim7/sus4)**  
**Samples: 37 RAM: 2 MB Level 2**

Major base, 1st inversion, 2nd inversion, octave  
 Minor base, 1st inversion, 2nd inversion, 7th  
 Dominant 7, diminished 7, sus4  
 Short rasguando  
 2 velocity layers: 0–88 p; 89–127 f  
 Release samples  
 AB switch: normal/muted

**98 RESOURCES**

**Level 2:** Isolated dynamics repetitions, legato

**98 RESOURCES/01 Perf Rep dyn**

**Range: D2–C6**

**01 CG\_rep\_cre9-1 (2/3/4/5/6/7/8/9)** **Samples: 57 RAM: 3 MB Level 2**  
 Extracted repetition  
 Legato, crescendo, 1st to 9th note  
 1 velocity layer  
 Release samples

**01 CG\_rep\_dim9-1 (2/3/4/5/6/7/8/9)** **Samples: 57 RAM: 3 MB Level 2**  
 Extracted repetition  
 Legato, diminuendo, 1st to 9th note  
 1 velocity layer  
 Release samples

**99 RELEASE**

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

## Matrices

### Matrix - LEVEL 1

#### L1 CG Articulation Combi

Samples: 1085 RAM: 67 MB Level 1

Staccato normal and Bartók  
Sustained without and with vibrato  
Ponticello without and with vibrato  
Harmonics artificial and natural  
Trills half and whole tone

**Matrix switches:** Horizontal: Keyswitches, C1–E1      Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	staccato normal	sustained, no vib.	ponticello, no vibrato	harmonics, artificial	trills half
V2	staccato Bartók	sustained, vibrato	ponticello, vibrato	harmonics, natural	trills whole

#### L1 CG Perf-Legato Speed

Samples: 3931 RAM: 245 MB Level 1

Interval performances, legato  
Normal, hammered and pulled, ponticello, and glissando  
Monophonic, Speed controller

**Matrix switches:** Horizontal: Speed, 2 zones      Vertical: Modwheel, 3 zones

	H1	H2
V1	normal	hammered / pulled
V2	ponticello	ponticello
V3	glissando	hammered / pulled

#### L1 CG Perf-Repetitions Combi

Samples: 1401 RAM: 87 MB Level 1

Repetition performances  
Legato slow  
Legato fast, var. 1  
Staccato

**Matrix switches:** Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
repetitions	legato slow	legato fast	staccato

**Matrix - LEVEL 2****01 CG Articulation Combi****Samples: 2189 RAM: 136 MB Level 2**

Staccato normal and Bartók  
 Sustained, flautando, ponticello and Bartók without and with vibrato  
 Étouffé staccato and sustained  
 Harmonics artificial and natural  
 Trills half and whole tone  
 Tremolo, short  
 Bends

**Matrix switches:** Horizontal: Keyswitches, C1–A1      Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
V1	staccato normal	sustained, no vibrato	flautando, no vibrato	ponticello, no vibrato	Bartók, no vibrato	étouffé, staccato	harmonics, artificial	trills half	tremolo short	bends
V2	staccato Bartók	sustained, vibrato	flautando, vibrato	ponticello, vibrato	Bartók, vibrato	étouffé, sustained	harmonics, natural	trills whole	tremolo short	bends

**02 CG Hammer****Samples: 217 RAM: 13 MB Level 2**

Hammer-ons on the E, A, d, g, b, e strings, and on all strings

**Matrix switches:** Horizontal: Keyswitches, C1–F1      Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
single strings	E	A	d	g	b	e
all strings	%	%	%	%	%	%

**03 CG Perf-Repetitions Combi****Samples: 3561 RAM: 222 MB Level 2**

Repetition performances  
 Legato slow, medium, and fast (var. 1/2)  
 Staccato  
 Ponticello medium and fast  
 Crescendo and diminuendo

**Matrix switches:** Horizontal: Keyswitches, C1–E1      Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	legato slow	legato fast v.1	staccato	ponticello medium	dynamics
V2	legato medium	legato fast v.2	staccato	ponticello fast	dynamics

**04 CG Fast Repetitions****Samples: 840 RAM: 52 MB Level 2**

Fast repetitions, 140, 150, 160, 180, and 200 BPM  
 Normal, ponticello, crescendo and diminuendo

**Matrix switches:** Horizontal: Keyswitches, C1–E1      Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1
normal	140 BPM	150 BPM	160 BPM	180 BPM	200 BPM
ponticello	%	%	%	%	%
dynamics	%	%	%	%	%

**05 CG Perf-Repetitions\_cre9****Samples: 249 RAM: 15 MB Level 2**

Extracted crescendo repetitions, 1st to 9th note

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
crescendo	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**06 CG Perf-Repetitions\_dim9****Samples: 249 RAM: 15 MB Level 2**

Extracted diminuendo repetitions, 1st to 9th note

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
diminuendo	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

**07 CG FX****Samples: 157 RAM: 9 MB Level 2**

Effects: Golpe, harp, muted chords, and scratches on the E, A, and D strings as well as in combination

**Matrix switches:** Horizontal: Keyswitches, C1–F#1

	C1	C#1	D1	D#1	E1	F1	F#1
V1	golpe	harp	chords muted	scratches E	scratches A	scratches D	scratches combi

**Matrix - LEVEL 2 Chords****01 CG Major 3 keys - batt & pull****Samples: 369 RAM: 23 MB Level 2**

3-key chords, major

Battente and pulled

AB switch: normal/muted

**Matrix switches:** Horizontal: Keyswitches, C1–B1

Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%

**02 CG Major 3 keys - all****Samples: 729 RAM: 45 MB Level 2**

3-key chords, major

Battente, pulled, rasguando and arpeggio/long rasguando

AB switches: normal/muted and arpeggio/rasguando

**Matrix switches:** Horizontal: Keyswitches, C1–B1

Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%
rasguando	%	%	%	%	%	%	%	%	%	%	%	%
arpeggio/rasg	%	%	%	%	%	%	%	%	%	%	%	%

**03 CG Minor 3 keys - batt & pull****Samples: 441 RAM: 27 MB Level 2**

3-key chords, minor

Battente and pulled

AB switch: normal/muted

**Matrix switches:** Horizontal: Keyswitches, C1–B1

Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%

**04 CG Minor 3 keys - all**

Samples: 873 RAM: 54 MB Level 2

3-key chords, minor

Battente, pulled, rasguando and arpeggio/long rasguando

AB switches: normal/muted and arpeggio/rasguando

**Matrix switches:** Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%
rasguando	%	%	%	%	%	%	%	%	%	%	%	%
arpeggio/rasg	%	%	%	%	%	%	%	%	%	%	%	%

**11 CG Major 4 keys - batt & pull**

Samples: 505 RAM: 31 MB Level 2

4-key chords, major

Battente and pulled

AB switch: normal/muted

**Matrix switches:** Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%

**12 CG Major 4 keys - all**

Samples: 1001 RAM: 62 MB Level 2

4-key chords, major

Battente, pulled, rasguando and arpeggio/long rasguando

AB switches: normal/muted and arpeggio/rasguando

**Matrix switches:** Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%
rasguando	%	%	%	%	%	%	%	%	%	%	%	%
arpeggio/rasg	%	%	%	%	%	%	%	%	%	%	%	%

**13 CG Minor 4 keys - batt & pull**

Samples: 729 RAM: 45 MB Level 2

4-key chords, minor

Battente and pulled

AB switch: normal/muted

**Matrix switches:** Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%

**14 CG Minor 4 keys - all**

Samples: 1475 RAM: 92 MB Level 2

4-key chords, minor

Battente, pulled, rasguando and arpeggio/long rasguando

AB switches: normal/muted and arpeggio/rasguando

**Matrix switches:** Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%
rasguando	%	%	%	%	%	%	%	%	%	%	%	%
arpeggio/rasg	%	%	%	%	%	%	%	%	%	%	%	%

**21 CG chromatic - batt & pull****Samples: 1361 RAM: 85 MB Level 2**

Chords in chromatic progression, battente and pulled

Major, minor, dominant 7, major 7, minor 7, diminished 7, major 7 with augmentet 5th, minor 7 with diminished 5th, minor with major 7th, suspended 4th, and 7 with suspended 4th

AB switch: normal/muted

**Matrix switches:** Horizontal: Keyswitches, C1–A#1

Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1
battente	major	minor	dom.7	maj.7	min.7	dim.7	maj.7#5	min.7b5	min.maj7	sus.4	7 sus.4
pulled	%	%	%	%	%	%	%	%	%	%	%

**22 CG chromatic - all****Samples: 2713 RAM: 169 MB Level 2**

Chords in chromatic progression, battente, pulled, rasguando and arpeggio/long rasguando

Major, minor, dominant 7, major 7, minor 7, diminished 7, major 7 with augmentet 5th, minor 7 with diminished 5th, minor with major 7th, suspended 4th, and 7 with suspended 4th

AB switches: normal/muted and arpeggio/rasguando

**Matrix switches:** Horizontal: Keyswitches, C1–A#1

Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1
battente	major	minor	dom.7	maj.7	min.7	dim.7	maj.7#5	min.7b5	min.maj7	sus.4	7 sus.4
pulled	%	%	%	%	%	%	%	%	%	%	%
rasguando	%	%	%	%	%	%	%	%	%	%	%
arpeggio/rasg	%	%	%	%	%	%	%	%	%	%	%

**31 CG 3string chrom - batt & pull****Samples: 633 RAM: 39 MB Level 2**

Chords on 3 strings in chromatic progression, battente and pulled

Major base, 1st and 2nd inversion, octave

Minor base, 1st and 2nd inversion

Minor 7, dominant 7, diminished 7, and suspended 4th

AB switch: normal/muted

**Matrix switches:** Horizontal: Keyswitches, C1–A#1

Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1
battente	maj. 5	maj. 6	maj. 4/6	maj. 8	min. 5	min. 6	min. 4/6	min. 7	dom. 7	dim. 7	sus. 4
pulled	%	%	%	%	%	%	%	%	%	%	%

**32 CG 3string chrom - all****Samples: 945 RAM: 59 MB Level 2**

Chords played on 3 strings in chromatic progression, battente, pulled, and rasguando

Major base, 1st and 2nd inversion, octave

Minor base, 1st and 2nd inversion

Minor 7, dominant 7, diminished 7, and suspended 4th

AB switch: normal/muted

**Matrix switches:** Horizontal: Keyswitches, C1–A#1

Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1
battente	maj. 5	maj. 6	maj. 4/6	maj. 8	min. 5	min. 6	min. 4/6	min. 7	dom. 7	dim. 7	sus. 4
pulled	%	%	%	%	%	%	%	%	%	%	%
rasguando	%	%	%	%	%	%	%	%	%	%	%

## Presets

**CG VSL Preset Level 1****Samples: 5944   RAM: 371 MB   Level 1**

L1 CG Articulation Combi  
L1 CG Perf-Legato Speed  
L1 CG Perf-Repetitions Combi  
Matrix keyswitches: C7–D7

**CG VSL Preset Level 2****Samples: 12199   RAM: 762 MB   Level 2**

L1 CG Perf-Legato Speed  
01 CG Articulation Combi  
03 CG Perf-Repetitions Combi  
04 CG Fast Repetitions  
02 CG Major 3 keys - all  
12 CG Major 4 keys - all  
04 CG Minor 3 keys - all  
14 CG Minor 4 keys - all  
07 CG FX  
Matrix keyswitches: C7–G#7

## Appendix – Chord play ranges

### Chords on 4–6 Strings – battente, pulled, rasguando, arpeggio/long rasguando

Major 3 and 4 keys		Minor 3 and 4 keys		Chromatic Mapping	
Scale	Range	Scale	Range	Chord	Range
C major	E2–G5	C minor	F2–D#6	major	D#2–D6
C# major	F2–G#5	C# minor	E2–D#6	minor	D#2–D6
D major	E2–G5	D minor	E2–D6	dom7	D#2–D6
D# major	F2–G#5	D# minor	F2–D#6	maj7	D#2–D6
E major	E2–G#5	E minor	E2–D#6	min7	D#2–D6
F major	E2–G5	F minor	F2–C#6	dim7	A2–D#4
F# major	F2–G#5	F# minor	E2–D6	maj7#5	A2–D#4
G major	E2–G5	G minor	F2–D#6	m7b5	A2–D#4
G# major	F2–G#5	G# minor	E2–D#6	Mmaj7	A2–D#4
A major	E2–F#5	A minor	E2–D6	sus4	D#2–D#6
A# major	F2–G5	A# minor	F2–D#6	7sus4	D#2–D#6
B major	E2–G#5	B minor	E2–D6		

### Chords on 3 Strings – battente, pulled, rasguando

Chord	Range
major5	G6–B7
major6	G6–B7
major46	F#6–A7
major8	F#6–A7
minor5	G6–B7
minor6	F#6–A7
minor46	G6–B7
minor7	G6–B7
dom7	F#6–A7
dim7	G6–B7
sus4	F#6–A7